

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Ruelle
Serial No.: Unknown
Filed: Herewith

Group Art Unit No.: Unknown
Examiner: Unknown

For: BASB019 Proteins and Genes from *Moraxella Catarrhalis*, Antigen, Antibodies, and Uses

PRELIMINARY AMENDMENT

Sir:

Please enter this Preliminary Amendment into the record of the above-identified patent application before the calculation of fees.

In the Claims:

Please delete the claims of the application as filed in the PCT and substitute therefor:

27. An isolated polypeptide comprising a member selected from the group consisting of
- (a) an amino acid sequence which has at least 90% identity to SEQ ID NOs:2, 4, 6, or 8;
 - (b) an immunogenic fragment of the amino acid sequence of (a), wherein the immunogenic fragment is at least 90% identical to an aligned contiguous segment of SEQ ID NOs:2, 4, 6, or 8; and
 - (c) an immunogenic fragment of the amino acid sequence of (a) that matches an aligned contiguous segment of SEQ ID NOs:2, 4, 6, or 8 with no more than five single amino acid substitutions, deletions or additions;

wherein the isolated polypeptide, when administered to a subject in a suitable composition which can include an adjuvant, or a suitable carrier coupled to the polypeptide, induces an immune response that recognizes a polypeptide having the sequence of SEQ ID NOs:2, 4, 6, or 8.

28. The isolated polypeptide of claim 27, wherein the immune response recognizes an antigen having molecular weight 17-18kD (by SDS PAGE) in *Moraxella catarrhalis* strains 2904, 2905, 2906, 2907, 2908, 2909, 2910, 2911, 2912, 2913, 2926, 2931, 2956, 2960, 2969, and 2975.